

BIOTECHNOLOGY  
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RAW SEQUENCE LISTING  
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/425,804B  
Source: 1600  
Date Processed by STIC: 5/11/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002

TIME: 12:34:25

Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
 Output Set: N:\CRF3\05012002\I425804B.raw

E--> 415 gtgggaatctc ctgg      (14) - line count is 15  
 435 <210> SEQ ID NO: 35  
 436 <211> LENGTH: 14  
 437 <212> TYPE: DNA  
 438 <213> ORGANISM: Artificial Sequence  
 440 <220> FEATURE:  
 441 <221> NAME/KEY: modified\_base  
 W--> 442 <212> TYPE: (2)      change to <222> - only needed once  
 E--> 442 <212> TYPE: (2) delete  
 W--> 443 <213> ORGANISM: thymidine 3'-O-phosphorothioate  
 445 <220> FEATURE:  
 446 <221> NAME/KEY: modified\_base  
 447 <222> LOCATION: (7)  
 448 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate  
 450 <220> FEATURE:  
 451 <221> NAME/KEY: modified\_base  
 452 <222> LOCATION: (9)  
 453 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate  
 455 <220> FEATURE:  
 456 <221> NAME/KEY: modified\_base  
 457 <222> LOCATION: (12)  
 458 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate  
 460 <400> SEQUENCE: 35  
 461 gtggaaatctc ctgg      14  
 463 <210> SEQ ID NO: 36  
 464 <211> LENGTH: 14  
 465 <212> TYPE: DNA  
 466 <213> ORGANISM: Artificial Sequence  
 468 <220> FEATURE:  
 469 <221> NAME/KEY: modified\_base  
 W--> 470 <212> TYPE: Compliment (2)      - Some error above  
 E--> 470 <212> TYPE: Compliment (2)      <222>  
 W--> 471 <213> ORGANISM: phosphorothioate  
 473 <220> FEATURE:      → change to <223>  
 474 <221> NAME/KEY: modified\_base  
 W--> 475 <212> TYPE: Compliment (12)      - Some  
 E--> 475 <212> TYPE: Compliment (12)      <222>  
 W--> 476 <213> ORGANISM: phosphorothioate      → change to <223>  
 478 <220> FEATURE:  
 479 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer  
 481 <400> SEQUENCE: 36  
 482 ccaggagatt ccac      14  
 484 <210> SEQ ID NO: 37  
 485 <211> LENGTH: 14  
 486 <212> TYPE: DNA  
 487 <213> ORGANISM: Artificial Sequence  
 489 <220> FEATURE:  
 490 <221> NAME/KEY: modified\_base  
 W--> 491 <212> TYPE: Compliment (5)      <222>

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/425,804B

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Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
Output Set: N:\CRF3\05012002\I425804B.raw

E--> 491 <212> TYPE: Compliment (5) delete  
W--> 492 <213> ORGANISM: phosphorothioate → <223>  
494 <220> FEATURE:  
495 <221> NAME/KEY: modified\_base  
W--> 496 <212> TYPE: Compliment (7) → <222>  
E--> 496 <212> TYPE: Compliment (7) delete  
W--> 497 <213> ORGANISM: phosphorothioate → <223>  
499 <220> FEATURE:  
500 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer  
502 <400> SEQUENCE: 37  
503 ccaggagatt ccac 14  
562 <210> SEQ ID NO: 40  
563 <211> LENGTH: 14  
564 <212> TYPE: DNA  
565 <213> ORGANISM: Artificial Sequence  
567 <220> FEATURE:  
568 <221> NAME/KEY: modified\_base  
569 <222> LOCATION: (9)..(10)  
570 <223> OTHER INFORMATION: phosphorothioate  
572 <220> FEATURE:  
573 <221> NAME/KEY: modified\_base  
574 <222> LOCATION: Complement (5)  
575 <223> OTHER INFORMATION: phosphorothioate  
577 <220> FEATURE:  
578 <221> NAME/KEY: modified\_base  
579 <222> LOCATION: Complement (7)  
580 <223> OTHER INFORMATION: phosphorothioate  
582 <220> FEATURE:  
583 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer  
E--> 585 <400> SEQUENCE: 38  
586 ccaggagatt ccac 14 → Skipped sequence, see P.5  
E--> 588 <210> SEQ ID NO: 40  
589 <211> LENGTH: 14  
590 <212> TYPE: DNA  
591 <213> ORGANISM: Artificial Sequence  
593 <220> FEATURE:  
594 <221> NAME/KEY: modified\_base  
595 <222> LOCATION: (9)..(10)  
596 <223> OTHER INFORMATION: phosphorothioate  
598 <220> FEATURE:  
599 <221> NAME/KEY: modified\_base  
600 <222> LOCATION: Complement (2)  
601 <223> OTHER INFORMATION: phosphorothioate  
603 <220> FEATURE:  
604 <221> NAME/KEY: modified\_base  
605 <222> LOCATION: Complement (5)  
606 <223> OTHER INFORMATION: phosphorothioate  
608 <220> FEATURE:  
609 <221> NAME/KEY: modified\_base

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/425,804B

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Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
 Output Set: N:\CRF3\05012002\I425804B.raw

610 <222> LOCATION: Complement (7)  
 611 <223> OTHER INFORMATION: phosphorothioate  
 613 <220> FEATURE:  
 614 <221> NAME/KEY: modified\_base  
 615 <222> LOCATION: Complement (12)  
 616 <223> OTHER INFORMATION: phosphorothioate  
 618 <220> FEATURE:  
 619 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer  
 E--> 621 <400> SEQUENCE: (41) - no differs from Seq. ID No.  
 622 ccaggagatt ccac 14  
 E--> 624 <210> SEQ ID NO: (42) - should be 41  
 635 <210> SEQ ID NO: 43  
 636 <211> LENGTH: 43  
 637 <212> TYPE: DNA  
 638 <213> ORGANISM: Artificial Sequence  
 640 <220> FEATURE:  
 641 <221> NAME/KEY: modified\_base  
 W--> 642 <212> TYPE: (9) → L222  
 E--> 642 <212> TYPE: (9) delete  
 W--> 643 <213> ORGANISM: phosphorodithioate → L223<sup>7</sup>  
 645 <220> FEATURE:  
 646 <221> NAME/KEY: modified\_base  
 W--> 647 <212> TYPE: (20) → L222  
 E--> 647 <212> TYPE: (20) delete  
 W--> 648 <213> ORGANISM: phosphorodithioate  
 650 <220> FEATURE: → L223  
 651 <221> NAME/KEY: modified\_base  
 W--> 652 <212> TYPE: (9) → L222  
 E--> 652 <212> TYPE: (9)  
 W--> 653 <213> ORGANISM: phosphate ester → L223  
 655 <220> FEATURE:  
 656 <221> NAME/KEY: modified\_base  
 W--> 657 <212> TYPE: (20) → L222  
 E--> 657 <212> TYPE: (20) delete  
 W--> 658 <213> ORGANISM: phosphate ester → L223  
 W--> 660 <223> OTHER INFORMATION:  
 660 <400> SEQUENCE: 43  
 E--> 661 ccaggagatt ccactttgt ggaatctcct gga 43

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 05/01/2002  
PATENT APPLICATION: US/09/425,804B               TIME: 12:34:26

Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
Output Set: N:\CRF3\05012002\I425804B.raw

Skipped Sequences(NEW RULES):

Sequence(s) missing. If intentional, please use the following format for each skipped sequence.

<210> sequence id number  
<400> sequence id number  
000

Seq#:41

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) }  
(Sec.1.823 of new Rules)

Seq#:2,14,25,43

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002  
TIME: 12:34:26

Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
Output Set: N:\CRF3\05012002\I425804B.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:60 Counted:59 SEQ:1  
M:254 Repeated in SeqNo=1  
L:39 M:252 E: No. of Seq. differs, <211> LENGTH:Input:66 Found:65 SEQ:1  
L:46 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:159 M:282 W: Numeric Field Identifier Missing, <212> is required.  
L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:298 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:298 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:415 M:254 E: No. of Bases conflict, LENGTH:Input:14 Counted:15 SEQ:33  
L:415 M:252 E: No. of Seq. differs, <211> LENGTH:Input:14 Found:15 SEQ:33  
L:442 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:442 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:443 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:470 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:470 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:471 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:475 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:475 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:476 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:491 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:491 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:492 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:496 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:496 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:497 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:585 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:38  
L:588 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:40  
L:621 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:41  
L:624 M:214 E: (33) Seq.# missing, SEQ ID NO:41  
L:642 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:642 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:643 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:647 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:647 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:648 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:652 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:652 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:653 M:280 W: Numeric Identifier already exists, Organism not replaced.  
L:657 M:280 W: Numeric Identifier already exists, Type not replaced.  
L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:658 M:280 W: Numeric Identifier already exists, Organism not replaced.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/425,804B

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Input Set : A:\09425804\_Ref No 122144-1001 SEQ ID LISTING.txt  
Output Set: N:\CRF3\05012002\I425804B.raw

L:660 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:661 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:33 SEQ:43

L:661 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:33 SEQ:43